Climate, Health & Equity: Practical Actions for Cities

Speakers:

Abygail Mangar Health and Resilience Program Manager, National League of Cities
Becky Ofrane Manager of Engagement and Partnerships, NYU City Health Dashboard
Irene Nielson Senior Advocate, NRDC
Neela Ram City Strategist, NRDC and City of Atlanta Climate Advisor

Hosted by National League of Cities, for Climate Sustainability and Resilience in Cities month



CITIES STRONG TOGETHER

Air Pollution & Health





COMMON AIR POLLUTANTS





Ozone Particulate Matter Nitrogen Oxide Carbon Monoxide

Volatile Organic Compounds Radon



Photo by Kindel Media: Photo by Cedric Fauntleroy from Pexels • • •

Extreme Weather Events =
Harmful Air Pollutants =
Adverse Health Effects







Health Impacts of Air Pollutants



Factors of Air Pollution Exposure

Proximity & Neighborhood

Time & Season

Vulnerable Demographics









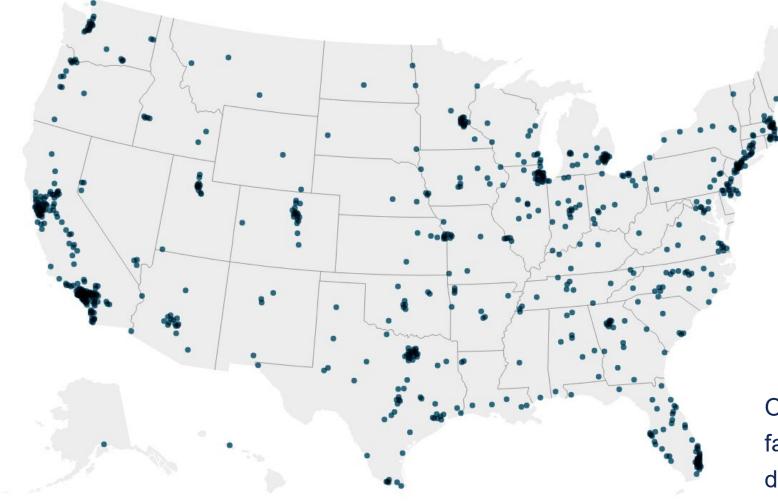
Climate, Health & Equity: Practical Actions for Cities

Becky Ofrane Department of Population Health NYU Grossman School of Medicine





www.CityHealthDashboard.com



Over 40 measures of health, the factors that shape health, and the drivers of health equity to guide local solutions for **750+ U.S. cities**.





Who uses the Dashboard?

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- Mayors and City Managers
- Local health departments
- City government agencies
- Community organizations
- Health and education advocates
- Philanthropies
- Researchers and students
- Media





City Health Dashboard Measures by Category

HEALTH OUTCOMES

Breast cancer deaths
COVID Local Risk Index
Cardiovascular disease deaths
Colorectal cancer deaths
Diabetes
Frequent mental distress
Frequent physical distress
High blood pressure
Life expectancy
Low birthweight
Obesity
Opioid overdose deaths
Premature deaths (all causes)



NYU Langone

-lealth

SOCIAL & ECONOMIC FACTORS

Absenteeism
Broadband connection
Children in poverty
Credit Insecurity Index
High School Completion
Housing cost, excessive
Income inequality
Neighborhood racial/ethnic segregation
Racial/ethnic diversity
Third-grade reading proficiency
Unemployment – Current, City-Level
Unemployment – Annual, Neighborhood-Level
Violent Crime

HEALTH BEHAVIORS

Binge Drinking Physical Inactivity

Smoking

Teen Births

CLINICAL CARE

Dental care

Prenatal care

Preventive services, 65+

Routine checkups, 18+

Uninsured

PHYSICAL ENVIRONMENT

Air pollution - ozone

Air pollution – particulate matter

Housing with potential lead risk

Lead exposure risk index

Limited access to healthy foods

Park access

Walkability



Metrics of Interest: Climate & Equity

Air Pollution – Ozone

- New! *Monthly* data from Jan 2018 Dec 2020, census tracts
- Ground-level ozone, modeled by research partners at George Mason University, through NASA's HAQAST program
- Average daily maximum 8-hour concentration of ozone in the air (in ppb) over the course of a month

Air Pollution – Particulate Matter

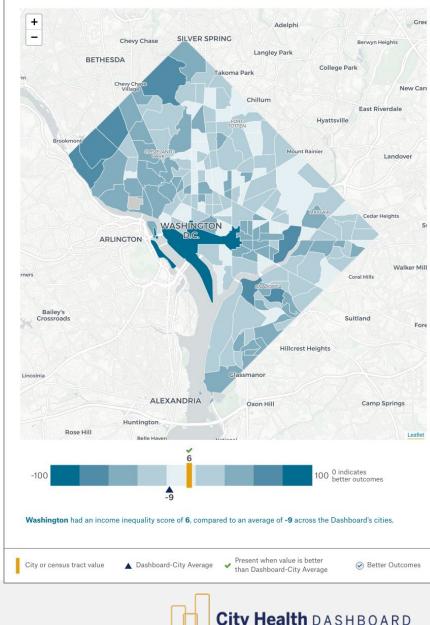
- Annual data, 2013 2018, census tracts
- Average daily concentration of fine particulate matter (PM2.5) per cubic meter (average)

Income Inequality

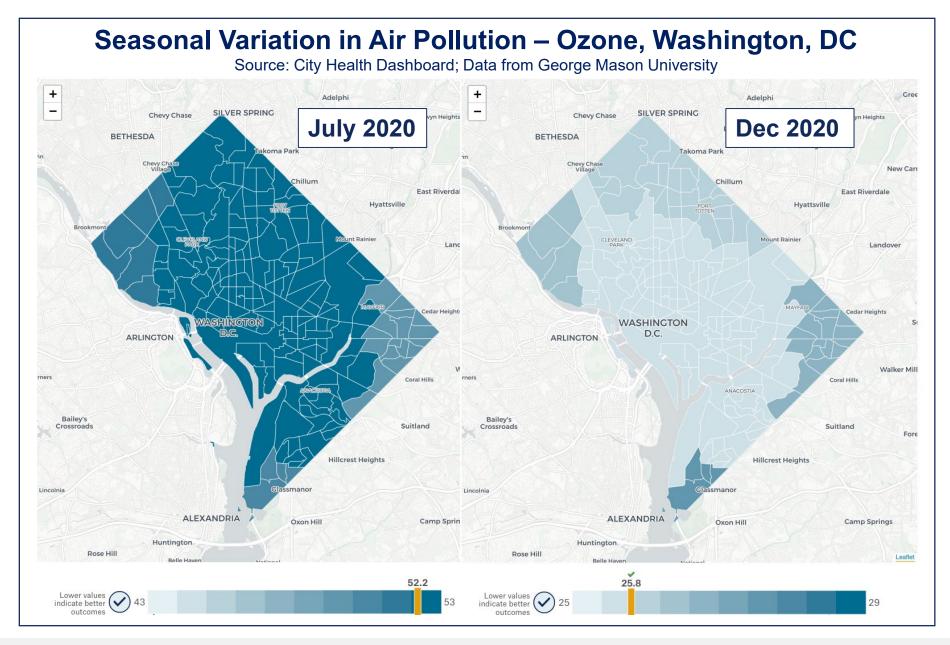
- Annual data, 2013 2019, census tracts
- Households with income at the extremes of the national income distribution (the top 20% or bottom 20%) (index)

Income Inequality in Washington, DC

Source: City Health Dashboard; Data from American Community Survey, 2019, 5 Year Estimate











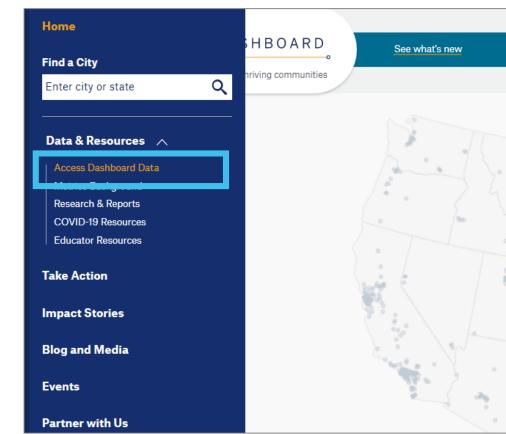
Access the Data

All Dashboard data is available for download

- Most recent year: .csv and .txt files
- Multi-year: API

Download complete Dashboard data for all cities or by state

Complete brief survey to access all data







Bloomberg Philanthropies

American Cities Climate Challenge

Practical Actions for Cities American Cities Climate Challenge

National League of Cities April 26, 2022 Irene Boland Nielson

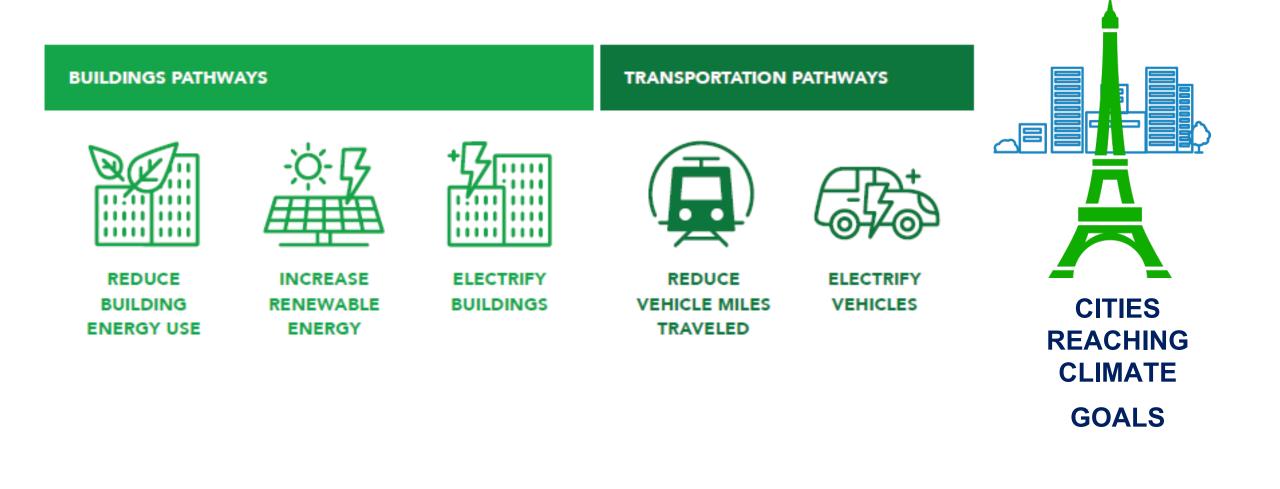
WHAT IS THE AMERICAN CITIES CLIMATE CHALLENGE?

A Bloomberg Philanthropies initiative that aims to accelerate and deepen U.S. cities' efforts to create the greatest climate impact through 2020 and showcase the benefits – good jobs, cleaner air, and cost savings – that climate solutions bring.

25 CITIES ACROSS THE UNITED STATES



FOCUSING ON TWO LARGEST SOURCES OF EMISSIONS



BUILDINGS AND ENERGY ACTIONS





FOUNDATIONAL

- Energy efficiency and retrocommissioning of municipal facilities
- Municipal electricity through renewables
- EV charging in municipally owned parking lots
- Energy code enforcement
- Building challenge programs
- Workforce development programs

AMBITIOUS

- Financing programs
- Benchmarking, audit, and retrocomissioning policy
- Performance standard for existing buildings
- EV and Solar readiness or installation requirement
- Community solar projects
- Local energy resource center

MOONSHOT

- Building decarbonization incentives and demonstration projects
- Building decarbonization through local codes

TRANSPORTATION ACTIONS



FOUNDATIONAL

- Improved Public Transit Speed, User Experience, Reliability
- Priority walking and bike networks
- EV education and incentives
- Bikeshare, scooter shares
- Commuter incentives to reduce driving
- Electrify city fleets and buses

AMBITIOUS

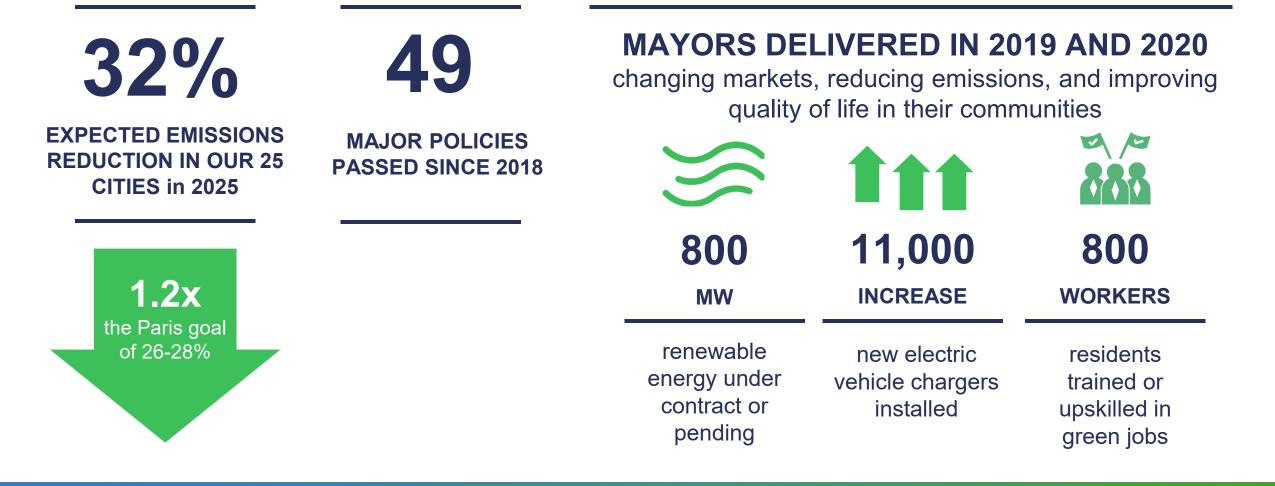
- Behavioral change for low-carbon mobility
- Fully implement bike and ped networks
- Parking management and pricing
- Pricing low emissions zones
- Expand high-frequency transit network

MOONSHOT

- Market transformation for community scale transition to EVs
- > Eliminate parking requirements
- Build more housing near transit
- Ubiquitous EV charging infrastructure

The Climate Challenge has empowered cities to "beat the odds" and deliver on ambitious climate goals

Our cities will exceed Paris targets while delivering valuable co-benefits that improve residents' lives



Climate Challenge cities passed 28 transportation policies and adopted 41 programs to advance low-carbon mobility

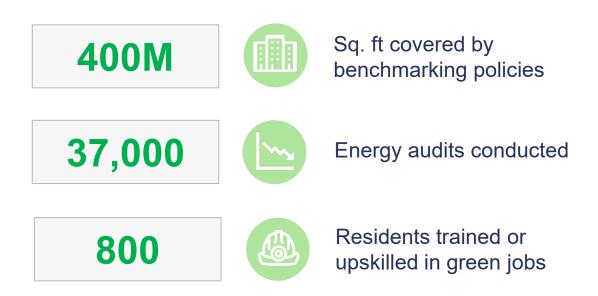


Climate Challenge cities increased renewable energy for a cleaner electricity grid, improved building energy efficiency, and phased out fossil fuels



Areas of Impact

- Renewable energy procurement
- Advanced energy-saving building policies for existing buildings
- Adopted reach codes for new construction
- Accelerating building electrification



WE REDEFINED THE CLIMATE CHALLENGE'S NORTH STAR

How We Define High Impact

- Contribute to significant GHG reductions;
- Center historically underserved voices, especially Black and Brown voices, in policy design, development and implementation; and
- Deliver significant, co-defined benefits for these communities that lead to greater prosperity and will endure for the long term.

IN CITIES, WE SAW HOW KEY ELEMENTS CAME TOGETHER

Community Co-Creation



Local-partner Coalition Network



Economic Inclusion & Recovery



Cross-departmental & Mayoral Led Work



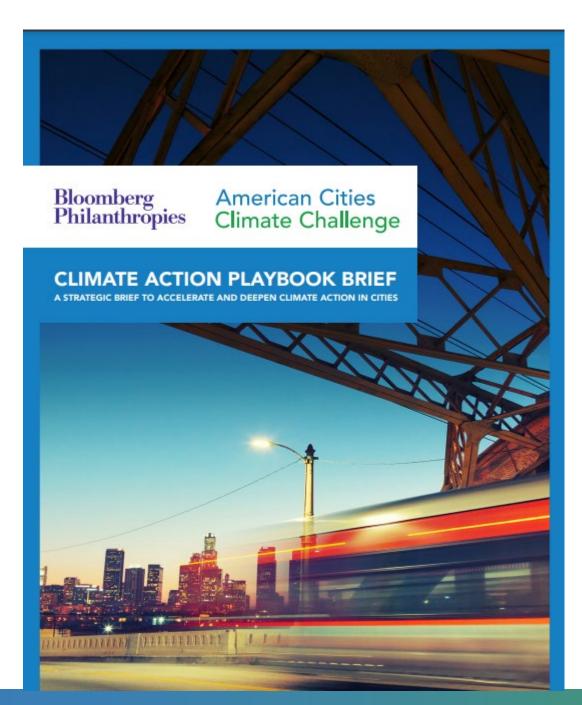
Equity Metrics



How cities moved towards power sharing and cocreation with communities of color How local partners worked together and with the city to lead to change

How climate work was able to contribute to economic recovery and benefit communities of color Where a change in city practice and community relationship was spurred by a strong mayoral commitment or where the work required working across institutional silos

Where community orgs work with cities to interpret and use equity indicator data



Read more>>

https://assets.bbhub.io/dotorg/sites/2/2020/07/Americ an-Cities-Climate-Challenge-Climate-Action-Playbook.pdf

Bloomberg Philanthropies

American Cities Climate Challenge

THANK YOU

Irene Boland Nielson Senior Advocate for City, State, Federal Policy Integration, NRDC inielson@nrdc.org

<u>evereche</u> Partnerships: Atlanta's Approach to Tackling Urban Heat Island Effect

clean energy atlanta

Atlanta's Office of Resilience

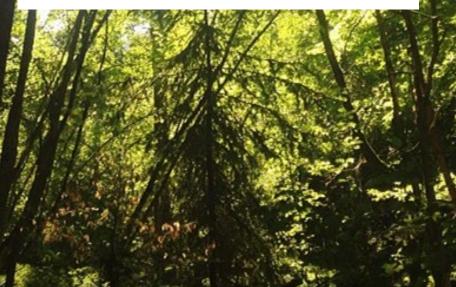
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Urban Heat ATL



Urban Heat ATL







Georgia

Tech

Global Change Program

Center for Serve-Learn-Sustain

Urban Climate Lab



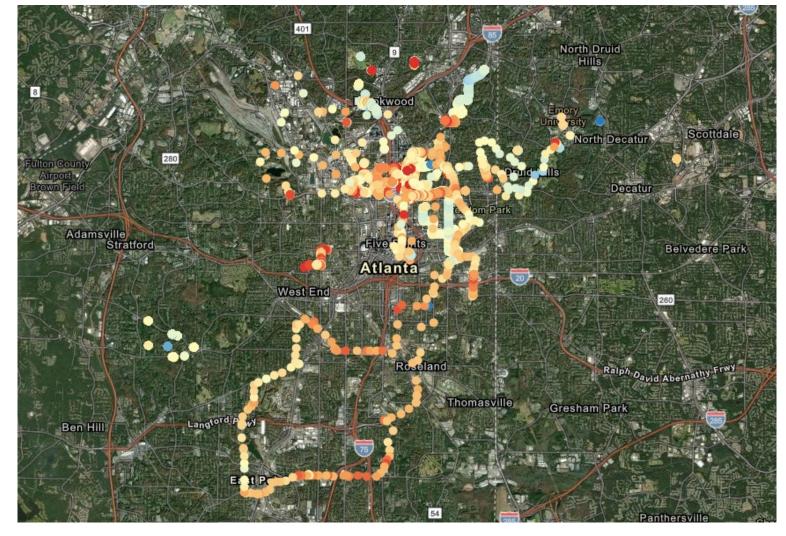




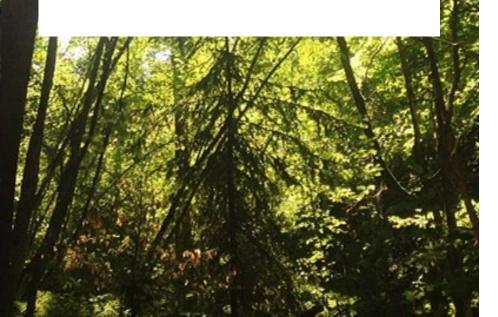
clean energy atlanta

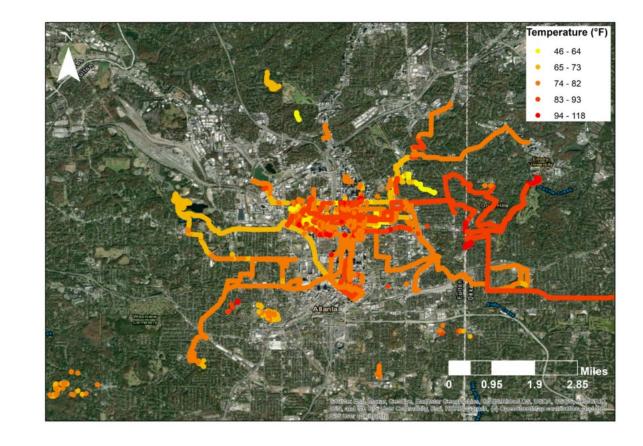
Volunteers have collected over 1 million data points





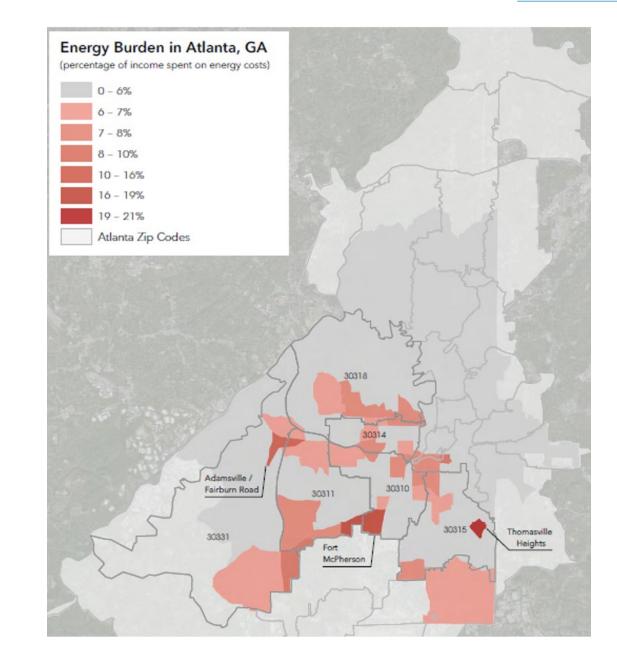
Project Growth Over Time



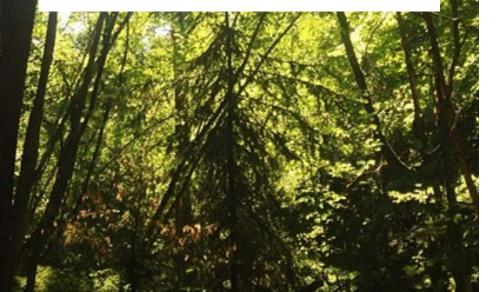




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Atlanta's Energy Burden



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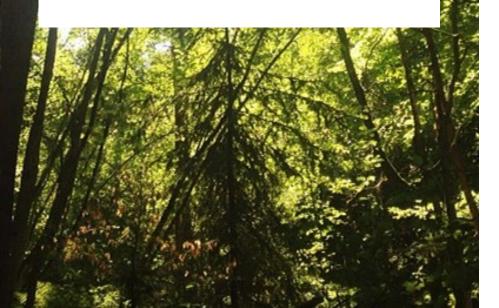
Atlanta's Climate Action Plan

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Looking Ahead and Next Steps



THANK YOU



Neela Ram Natural Resources Defense Council nram@nrdc.org



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